

# Assignment-7

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Download all python codes from

[https://github.com/BatharajuRamana/Assignment7/  
tree/main/Assignment7](https://github.com/BatharajuRamana/Assignment7/tree/main/Assignment7)

and latex-tikz codes from

[https://github.com/BatharajuRamana/Assignment7/  
tree/main/Assignment7](https://github.com/BatharajuRamana/Assignment7/tree/main/Assignment7)

## 1 QUESTION No-2.70

Find  $\mathbf{p}^{-1}$ . if it exists, given  $\mathbf{p} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix}$

## 2 SOLUTION

Given that

$$\mathbf{p} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix} \quad (2.0.1)$$

$$\xleftrightarrow{R_1 \leftarrow R_1 + 2R_2} \begin{pmatrix} 0 & 0 \\ -5 & 1 \end{pmatrix} \quad (2.0.2)$$

$$\det \mathbf{p} = 0$$

Does not exists  $\mathbf{p}^{-1}$